

Global In-screen Fingerprint Sensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global In-screen Fingerprint Sensors market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In-screen fingerprint recognition technology is a new technology that completes the fingerprint recognition and unlocking process through the bottom of the screen. It mainly uses ultrasonic, optical and other technologies to penetrate various materials to achieve the purpose of fingerprint recognition. According to the technical principle, In-screen fingerprint sensors can be divided into optical type, ultrasonic type and capacitive type.

The In-screen Fingerprint Sensors market is driven by several key factors that influence the demand for this technology in various devices:

Enhanced Security: In-screen fingerprint sensors offer a higher level of security compared to traditional methods like PINs or patterns, making them attractive to consumers concerned about data privacy and device security.

Convenience and User Experience: In-screen fingerprint sensors provide a convenient and seamless user experience by allowing users to unlock their devices with a simple touch on the screen.

Ergonomics and Design: In-screen fingerprint sensors eliminate the need for a physical fingerprint sensor on the device's surface, contributing to sleek and modern design aesthetics.

Space-Saving: In-screen fingerprint sensors free up physical space on the device's exterior, allowing for larger displays and reducing the need for bezels.

Gesture Integration: In-screen fingerprint sensors can be integrated with gesture recognition capabilities, offering additional functionalities beyond basic device unlocking.

Authentication for Applications: In-screen fingerprint sensors can provide secure authentication for apps, transactions, and other sensitive actions, enhancing overall user security.

Biometric Payment Verification: In-screen fingerprint sensors support biometric verification for mobile payment services, adding an extra layer of security to financial transactions.

Differentiation in the Market: Manufacturers differentiate their devices by offering in-screen fingerprint sensors, attracting customers looking for the latest and most innovative features.

Market Trend and Adoption: As more flagship smartphones and devices adopt in-screen fingerprint sensors, consumer expectations and demand for this technology increase.

Competitive Landscape: Manufacturers strive to outpace competitors by incorporating cutting-edge technologies like in-screen fingerprint sensors into their products.

Integration with Display Technology: In-screen fingerprint sensors are often integrated with OLED or AMOLED displays, leveraging synergies between display and sensing technologies.

Biometric Data Protection: In-screen fingerprint sensors can store biometric data directly on the device, reducing the risk of data breaches compared to cloud-based authentication methods.

Technological Advancements: Ongoing advancements in sensor technology and accuracy improve the reliability and performance of in-screen fingerprint sensors.

Consumer Preference: Many consumers prefer biometric methods like fingerprint recognition over traditional authentication methods due to their speed and ease of use.

Adoption in Various Devices: In-screen fingerprint sensors are not limited to smartphones; they are increasingly used in laptops, tablets, and other devices.

Enterprise Security: In-screen fingerprint sensors provide enhanced security for business and enterprise devices, protecting sensitive corporate data.

Future Innovations: The in-screen fingerprint sensor market is expected to continue evolving with innovations like improved accuracy, multi-biometric integration, and under-display camera technology.

This report is a detailed and comprehensive analysis for global In-screen Fingerprint Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global In-screen Fingerprint Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global In-screen Fingerprint Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global In-screen Fingerprint Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global In-screen Fingerprint Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for In-screen Fingerprint Sensors
- To forecast future growth in each product and end-use market

To forecast future factors affecting the marketplace

This report profiles key players in the global In-screen Fingerprint Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Synaptics, Fingerprint Cards, Qualcomm, AuthenTec, Goodix Technology, Egis Technology, (SILEAD) GigaDevice, Chipone, FocalTech, Suzhou Mairui Microelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

In-screen Fingerprint Sensors market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Optical Type

Capacitance Type

Ultrasonic Type

Others

Market segment by Application

Mobile

Tablet

Automotive

Door Lock

Others

Major players covered

Synaptics

Fingerprint Cards

Qualcomm

AuthenTec

Goodix Technology

Egis Technology

(SILEAD) GigaDevice

Chipone

FocalTech

Suzhou Mairui Microelectronics

Sunwave Corporation

Shenzhen Xinqihang Technology

Shenzhen Betterlife Electronic Science and Technology

FingerTech

OXi Technology

VKANSEE

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe In-screen Fingerprint Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of In-screen Fingerprint Sensors, with price, sales quantity, revenue, and global market share of In-screen Fingerprint Sensors from 2020 to 2025.

Chapter 3, the In-screen Fingerprint Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the In-screen Fingerprint Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and In-screen Fingerprint Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of In-screen Fingerprint Sensors.

Chapter 14 and 15, to describe In-screen Fingerprint Sensors sales channel, distributors, customers, research findings and conclusion.

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